

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

May 4, 2015

Biologics Therapies Incorporated c/o Mr. Stephen Inglese Quality Solutions and Support, LLC 5817 North West 44th Avenue Ocala, Florida 34482

Re: K141910

Trade/Device Name: Intraosseous Cannula System Bio-MAC[™] and Bio-CORE[™]

Regulation Number: 21 CFR 876.1075

Regulation Name: Gastroenterology-urology biopsy instrument

Regulatory Class: Class II Product Code: KNW, FCG Dated: April 24, 2015 Received: April 27, 2015

Dear Mr. Inglese:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set

forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Jennifer R. Stevenson -S

For Binita S. Ashar, M.D., M.B.A., F.A.C.S.
Director
Division of Surgical Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

4.0 Indications for Use Statement

| 52.74111 | MENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration | Form Approved: OMB No. 0910-0120 |
|--|--|--|
| | Indications for Use | Expiration Date: January 31, 2017 See PRA Statement below. |
| i10(k) Number (if known) | | |
| K141910 | | |
| Device Name | - Bio-MAC TM and Bio-CORE TM | |
| Indications for Use (Describe) The Bio-MAC TM Bone Ma marrow material in the hun | rrow Aspiration Cannula System is for use in | the intraosseous aspiration of viscous bone |
| The Bio-CORE™ Bone Moone marrow material in the | | ne intraosseous harvest and biopsy of "solid core" |
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| Type of Use (Select one or bo | oth, as applicable) | |
| | | ver-The-Counter Use (21 CFR 801 Subpart C) |
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| X Prescription | n Use (Part 21 CFR 801 Subpart D) O | SE IF NEEDED. |
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5.0 510(k) Summary

In accordance with 21 CFR 807.87(h) and (21 CFR 807.92) the 510(k) Summary for the Intraosseous Cannula Systems is provided below.

Device Common Name: Biopsy Instrument

Device Proprietary Name: Intraosseous Cannula System Bio-MAC™ and

Bio-CORE™

Submitter: Biologics Therapies, Inc.

5817 NW 44th Avenue Ocala, FL 34482 (352)-304-5149

Contact: Stephen Inglese

Consultant

Quality Solutions and Support, LLC

Phone: 561-251-0876 Email: swi@gss-llc.com

Date Prepared: January 10th 2015

Classification Regulation: 876.1075 – Gastroenterolgy- Urology

Biopsy Instrument

Panel: Gastroenterology / Urology

Product Code: KNW - Subsequent Code: FCG

Predicate Device: K072045 – ONCONTROL Bone Marrow Biopsy

System

Indication for Use:

The Bio-MAC™ Bone Marrow Aspiration Cannula System is for use in the intraosseous aspiration of viscous bone marrow material in the human body.

The Bio-CORE™ Bone Marrow Biopsy Cannula System is for use in the intraosseous harvest and biopsy of "solid core" bone marrow material in the human body.

Device Description:

The Bio-MAC™ Bone Marrow Aspiration Cannula System is an 11 gauge cannula needle system in various lengths (currently 25,45,60,80 and 105mm) that allows the use of a surgical drill "power driver" for hard bone insertion during a viscous bone marrow aspiration/collection procedure.

The Bio-CORE™ Bone Marrow Biopsy Cannula is an 11guage cannula needle system in various lengths (currently of 60, 80, and 105mm) that allows

the use of a surgical drill "power driver" for hard bone insertion during a bone marrow solid core biopsy procedure.

Indication Statement Comparison:

Predicate Device: K072045 - OnControl Bone Marrow Biopsy System Indications - The OnControl Bone Marrow Biopsy System is intended for bone marrow aspiration and biopsy.

Submitted Devices:

Bio-MAC - The Bio-MAC™ Bone Marrow Aspiration Cannula System is for use in the intraosseous aspiration of viscous bone marrow material in the human body.

Bio-MAC - The Bio-CORE™ Bone Marrow Biopsy Cannula System is for use in the intraosseous harvest and biopsy of "solid core" bone marrow material in the human body.

Summary Indication Comparison:

No Deviations - The submitted devices indications are in line with the predicate device. The submitted devices accomplish either bone marrow aspiration or bone marrow biopsy as similarly stated in the predicate indication.

Summary of technological characteristics / Substantial Equivalence—
The predicate and the Intraosseous Cannula Systems Bio-MAC™ and BioCORE™ were compared in the following areas and found to have similar technological characteristics and to be equivalent to the Vidacare OnControl Bone Marrow Biopsy System :

- Indications for use
- Needle Design (Material and Gauge)
- Technique
- Sterility
- Single Use
- Anatomical Location

Summaries of technological characteristics demonstrating substantial equivalence (SE) (BTI Bio-MAC and BTI Bio-CORE with SE Vidacare OnControl are also provided below:

BTI - Bio-MAC device as compared to the Vidacare - OnControl Bone Marrow Biopsy System -

| Device Characteristic | Biologics Therapies (BTI) | Vidacare |
|-------------------------------|---|--|
| Device Name | Bio-MAC | OnControl Bone Marrow Biopsy System |
| 510(k) Number | K141910 | K072045 |
| Material | 304 Stainless Steel / Polyetherimide (Ultem) | 304 Stainless Steel |
| Diameter – gauge | 11 | 11 |
| Length - mm | 25, 45, 60, 80, 105mm | 25, 60, 90 and 102mm |
| Cannula Fenestration Slots | Yes | No |
| Packaged Sterilized | Yes | Yes |
| Single Use Device | Yes | Yes |
| Method of Device Insertion | Drill / Driver; via a provided driver adapter – customer owned drill – example Stryker Surgical Instruments and Accessories – K943323 | Drill / Driver; via a provided re- useable battery powered drill |
| Method of aspiration | Attached syringe to Luer Lock on cannula hub | Attached syringe to Luer Lock on cannula hub |
| Skeletal Location of Use | Proximal Humerus, Proximal Tibia, Posterior Iliac Crest, Anterior Iliac Crest and Vertebral Body | Proximal Humerus, Proximal Tibia, Distal Tibia and Iliac Crest |

BTI - Bio-CORE device as compared to the Vidacare – OnControl Bone Marrow Biopsy System -

| Device Characteristic | Biologics Therapies | Vidacare |
|-------------------------------|---|---|
| Device Name | Bio-CORE | Oncontrol Bone Marrow Biopsy System |
| 510(k) Number | K141910 | K072045 |
| Material | 304 Stainless Steel / Polyetherimide (Ultem) | 304 Stainless Steel |
| Diameter – mm | 11 | 11 |
| Length – mm | 60, 80 and 105mm | 102 and 152mm |
| Packaged Sterilized | Yes | Yes |
| Single Use Device | Yes | Yes |
| Method of Device Insertion | Drill / Driver; via a provided driver adapter – customer owned drill – example Stryker Surgical Instruments and Accessories – K943323 | Drill / Driver; via a provided re- useable battery powered drill |
| Skeletal Location of Use | Iliac Crest | Iliac Crest |

Performance Testing:

To establish the substantial equivalence of the Intraosseous Cannula Systems Bio-MAC™ and Bio-CORE™ devices the following performance tests were performed:

- 027_A6_Bio-MAC Design Validation PROT / RPT 300
- 028 A6 Bio-CORE Design Validation PROT /RPT 301
- 029_A6_Predicate Device Testing Bio-MAC Design Validation PROT / RPT 301
- 030_A6_Bio-MAC Physical Testing Torque to Turn and Pullout Tests The results indicated the submitted devices perform as safe and effective as the predicate device.

Performance Testing Summary:

Utilizing a predicate device of the largest size and the BTI Bio-MAC and Bio-CORE smallest and largest size bench testing was accomplished. The two tests demonstrated that utilizing the BTI Bio-MAC and Bio-CORE in an operating condition demonstrated the devices functioned as safe and

effective as the predicate device thus the Bio-MAC and Bio-CORE are recognized to be substantially equivalent.